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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Role management: Role mining with ORCA](#)

Jürgen Schlegelmilch, Ulrike Steffens

 June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies SACMAT '05**

Publisher: ACM Press

 Full text available: pdf(212.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With continuously growing numbers of applications, enterprises face the problem of efficiently managing the assignment of access permissions to their users. On the one hand, security demands a tight regime on permissions; on the other hand, users need permissions to perform their tasks. Role-based access control (RBAC) has proven to be a solution to this problem but relies on a well-defined set of role definitions, a role concept for the enterprise in question. The definition of a role concept ( ...

**Keywords:** cluster analysis, data mining, role definition, role engineering, role hierarchy, role mining, role-based access control

2 [Access control: RoleMiner: mining roles using subset enumeration](#)

Jaideep Vaidya, Vijayalakshmi Atluri, Janice Warner

 October 2006 **Proceedings of the 13th ACM conference on Computer and communications security CCS '06**

Publisher: ACM Press

 Full text available: pdf(244.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Role engineering, the task of defining roles and associating permissions to them, is essential to realize the full benefits of the role-based access control paradigm. Essentially, there are two basic approaches to accomplish this: the *top-down* and the *bottom-up*. The top-down approach relies on a careful analysis of the business processes to define job functions and then specify appropriate roles from them. While this approach can aid in defining roles more accurately, it is tedious ...

**Keywords:** RBAC, role engineering, role mining

3 [Privacy through pseudonymity in user-adaptive systems](#)

Alfred Kobsa, Jörg Schreck

 May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(881.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

User-adaptive applications cater to the needs of each individual computer user, taking for example users' interests, level of expertise, preferences, perceptual and motoric abilities, and the usage environment into account. Central user modeling servers collect and process the information about users that different user-adaptive systems require to personalize their user interaction. Adaptive systems are generally better able to cater to users the more data their user modeling systems collect and ...

**Keywords:** Chaum mix, KQML, User modeling, access control, anonymity, encryption, personal information, personalization, privacy, pseudonymity, reference model, secrecy, security, user-adaptive systems

#### 4 Flexible team-based access control using contexts



Christos K. Georgiadis, Ioannis Mavridis, George Pangalos, Roshan K. Thomas

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

**Publisher:** ACM Press

Full text available:  pdf(186.36 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We discuss the integration of contextual information with team-based access control. The TMAC model was formulated by Thomas in [1] to provide access control for collaborative activity best accomplished by teams of users. In TMAC, access control revolves around teams, where a "team" is an abstraction that encapsulates a collection of users in specific roles and collaborating with the objective of accomplishing a specific task or goal. Users who belong to a team are given access to resources ...

**Keywords:** access control, active security, contexts, teams

#### 5 Securing context-aware applications using environment roles



Michael J. Covington, Wende Long, Srividhya Srinivasan, Anind K. Dev, Mustaque Ahamad, Gregory D. Abowd

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

**Publisher:** ACM Press

Full text available:  pdf(131.07 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the future, a largely invisible and ubiquitous computing infrastructure will assist people with a variety of activities in the home and at work. The applications that will be deployed in such systems will create and manipulate private information and will provide access to a variety of other resources. Securing such applications is challenging for a number of reasons. Unlike traditional systems where access control has been explored, access decisions may depend on the context in which re ...

**Keywords:** context aware computing, role-based access control

#### 6 Flexible control of downloaded executable content



Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2  
Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(297.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We present a security architecture that enables system and application access control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote hosts that contain executables that run, upon receipt, on the downloading principal's machine. Unless restricted, this content can perform malicious actions, including accessing its downloading principal's private data and sending messages on th ...

**Keywords:** access control models, authentication, authorization mechanisms, collaborative systems, role-based access control

## 7 Flexible coordination with cooperative hypertext



Weigang Wang, Jörg M. Haake

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems HYPERTEXT '98**

**Publisher:** ACM Press

Full text available:  [pdf\(1.69 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 8 Specification and verification of security requirements in a programming model for decentralized CSCW systems



Tanvir Ahmed, Anand R. Tripathi

May 2007 **ACM Transactions on Information and System Security (TISSEC)**, Volume 10 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(746.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present, in this paper, a role-based model for programming distributed CSCW systems. This model supports specification of dynamic security and coordination requirements in such systems. We also present here a model-checking methodology for verifying the security properties of a design expressed in this model. The verification methodology presented here is used to ensure correctness and consistency of a design specification. It is also used to ensure that sensitive security requirements can ...

**Keywords:** Security policy specification, finite state-based model checking, methodology for access-control policy design, role-based access control

## 9 Poster session: Telling the user's story



Virginia Hill, Velda Bartek

March 2007 **Proceedings of the 2007 symposium on Computer human interaction for the management of information technology CHIMIT '07**

**Publisher:** ACM Press

Full text available:  [pdf\(188.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we describe how user roles and persona accurately target a product's audience. Beginning with the definition of user roles and personas, we show how user roles feed the persona creation process. Personas then serve as the primary design communication vehicle within the product team.

**Keywords:** persona, role, scenario, story

10 Role administration: A meta model for authorisations in application security systems ☐  
and their integration into RBAC administration



Axel Kern, Martin Kuhlmann, Rainer Kuropka, Andreas Ruthert

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies SACMAT '04**

**Publisher:** ACM Press

Full text available: pdf(358.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a new concept for efficient access rights administration and access control. It focuses on the special requirements of application security and reflects experiences from the implementation of security for large industry application systems. Application security shows a considerable inherent complexity due to the large number of combinations of objects and processes for which access rights must be defined. Based on practical experiences, this paper introduces a new approach fo ...

**Keywords:** application security, automated identity management, enterprise role-based access control (ERBAC), enterprise roles, role-based access control (RBAC), sam jupiter, security administration, security provisioning

11 Role-based access control in telecommunication service management—dynamic role ☐  
creation and management in TINA service environment



Takeo Hamada

October 1998 **Proceedings of the third ACM workshop on Role-based access control RBAC '98**

**Publisher:** ACM Press

Full text available: pdf(975.87 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** TINA, role algebra, role class hierarchy, role mapping, role-based access control, security space, strongly-roled system, telecommunication service management

12 Intelligent Agents Meet Semantic Web in a Smart Meeting Room ☐

Harry Chen, Filip Perich, Dipanjan Chakraborty, Tim Finin, Anupam Joshi

July 2004 **Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 2 AAMAS '04**

**Publisher:** IEEE Computer Society

Full text available: pdf(883.42 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We describe a new smart meeting room system called EasyMeeting that explores the use of FIPA agent technologies, Semantic Web ontologies, logic reasoning, and security and privacy policies. Building on a pervasive computing system that we have developed previously, EasyMeeting can provide relevant services and information to meeting participants based on their situational needs. Our system exploits the context-aware support provided by the Context Broker Architecture (CoBra). Central to CoBra is ...

13 Creating seLinux policies simplified ☐

Irfan Habib

February 2007 **Linux Journal**, Volume 2007 Issue 154

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  [html\(15.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

SELinux is easier than you think.

14 Implementing role based access control for federated information systems on the web 

Kerry Taylor, James Murty

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

**Publisher:** Australian Computer Society, Inc.

Full text available:  [pdf\(217.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is rapidly increasing interest in Australia in on-line sharing of information stored in corporate databases, especially within and between staff of independent government agencies. Biological collections databases and population health GIS are good examples of the frequent situation where database custodians are looking for dynamic, distributed, heterogenous federated information system models for information sharing within loosely constituted communities. This paper describes a security m ...

**Keywords:** RBAC, federated databases


15 Mobile and Cooperative Systems: Information sharing and security in dynamic coalitions 



Charles E. Phillips, T.C. Ting, Steven A. Demurjian

June 2002 **Proceedings of the seventh ACM symposium on Access control models and technologies SACMAT '02**

**Publisher:** ACM Press

Full text available:  [pdf\(1.68 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today, information sharing is critical to almost every institution. There is no more critical need for information sharing than during an international crisis, when international coalitions dynamically form. In the event of a crisis, whether it is humanitarian relief, natural disaster, combat operations, or terrorist incidents, international coalitions have an immediate need for information. These coalitions are formed with international cooperation, where each participating country offers whate ...

**Keywords:** access control, distributed systems, dynamic coalitions, information security

16 Flexible support for multiple access control policies 



Sushil Jajodia, Pierangela Samarati, Maria Luisa Sapino, V. S. Subrahmanian

June 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(460.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although several access control policies can be devised for controlling access to information, all existing authorization models, and the corresponding enforcement mechanisms, are based on a specific policy (usually the closed policy). As a consequence, although different policy choices are possible in theory, in practice only a specific policy can actually be applied within a given system. In this paper, we present a unified framework that can enforce multiple access control policies withi ...

**Keywords:** access control policy, authorization, logic programming


17 The role-based access control system of a European bank: a case study and discussion ☐



Andreas Schaad, Jonathan Moffett, Jeremy Jacob

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies SACMAT '01**

**Publisher:** ACM Press

Full text available:  pdf(201.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research in the area of role-based access control has made fast progress over the last few years. However, little has been done to identify and describe existing role-based access control systems within large organisations. This paper describes the access control system of a major European Bank. An overview of the systems structure, its administration and existing control principles constraining the administration is given. In addition, we provide an answer to a key question - the ratio of ...

**Keywords:** control principles, dual control, inheritance, least privilege, number of roles, role administration, role-based access control, separation of duties


18 Migrating to role-based access control ☐



Kami Brooks

October 1999 **Proceedings of the fourth ACM workshop on Role-based access control RBAC '99**

**Publisher:** ACM Press

Full text available:  pdf(1.22 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** Tivoli Management Environment, enterprise systems management, migration, role-based access control, security management

19 Policies and roles in collaborative applications ☐



W. Keith Edwards

November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work CSCW '96**

**Publisher:** ACM Press

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** Intermezzo, access control, computer-supported cooperative work, infrastructure, policies, roles

20 The matrix and beyond: expanding proactive resources for customers ☐



Mo Nishiyama, Leslie J. McNeil, Holly E. Wyatt

November 2006 **Proceedings of the 34th annual ACM SIGUCCS conference on User services SIGUCCS '06**

**Publisher:** ACM Press

Full text available:  pdf(152.76 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

At Oregon Health & Science University (OHSU), essential duties of the Information Technology Group (ITG) include providing support for a diverse customer base. Faculty, staff, students, volunteers, visiting scholars, interns, vendors, and community healthcare partners all rely on ITG's Customer Relations Management Division (CRMD) for resolving their computing and account access issues. In a dynamic support environment where many of the customer roles falls outside the one-size-fits-all support ...

**Keywords:** communication, customer service, electronic documentation, knowledge management, portals, role-based matrix, workflow improvement

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	726/8-9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:03
L2	1311	((726/8-9) or (726/18-21)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/06/06 20:03
L3	236	2 and (@pd > "20060920")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:04
L4	12	role adj template and role adj definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:40
L5	198	role adj map	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:40
L6	9	role adj map and access adj permission	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:44
L7	3	((role adj map) and (access adj permission)).clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:49
L8	0	726/28-29	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:49
L9	556	(726/28-29).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/06/06 20:49



## EAST Search History

L10	0	9 and role adj map	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:49
L11	2	9 and role adj definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:49
S1	1053	((726/9) or (726/8) or (726/18-21)). CCLS.	US-PGPUB; USPAT	OR	OFF	2006/09/19 14:35
S4	93	S1 and (@pd > "20060517")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 12:49
S6	12	role adj template and role adj definition	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/06 20:38

## EAST Search History

S7	44	US-5872926-\$.DID. OR US-6092101-\$.DID. OR US-6167402-\$.DID. OR US-6553427-\$.DID. OR US-6336147-\$.DID. OR US-6336118-\$.DID. OR US-6148302-\$.DID. OR US-5634129-\$.DID. OR US-5544302-\$.DID. OR US-6088675-\$.DID. OR US-6154876-\$.DID. OR US-6223207-\$.DID. OR US-6282548-\$.DID. OR US-6349302-\$.DID. OR US-6370537-\$.DID. OR US-6195662-\$.DID. OR US-6377952-\$.DID. OR US-6654747-\$.DID. OR US-6684204-\$.DID. OR US-6199081-\$.DID. OR US-6351843-\$.DID. OR US-6542845-\$.DID. OR US-6604209-\$.DID. OR US-6490721-\$.DID. OR US-5778227-\$.DID. OR US-6044224-\$.DID. OR US-5787427-\$.DID. OR US-5933820-\$.DID. OR US-6192408-\$.DID. OR US-6349307-\$.DID. OR US-6351744-\$.DID. OR US-6356940-\$.DID. OR US-6678682-\$.DID. OR US-6189032-\$.DID. OR US-6832237-\$.DID. OR US-6711612-\$.DID. OR US-5963976-\$.DID. OR US-6343324-\$.DID. OR US-6907457-\$.DID. OR US-6917373-\$.DID. OR US-6519571-\$.DID. OR US-6823458-\$.DID. OR US-6704024-\$.DID. OR US-7017016-\$.DID.	US-PGPUB; USPAT	OR	ON	2006/09/18 15:20
S8	7	("20020029256") or ("20020133752") or ("20030074423") or ("20010047385") or ("20020055951") or ("20040139145") or ("20020035533")).PN.	US-PGPUB; USPAT	OR	OFF	2006/09/18 14:23

## EAST Search History

S15	0	remote adj procedure adj call and (@py < "2000") and xml and (application service program) adj (id identifier url uri name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:26
S16	0	remote adj procedure adj call and (@py < "2000") and xml and (application service program server host) adj (id identifier url uri name)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:27
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S20	0	remote adj procedure adj call and (@py < "2001") and soap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:30
S22	0	remote adj procedure adj call and (@ad < "2000") and soap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:31
S23	551	remote adj procedure adj call same soap	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/18 14:31
S24	46	remote adj procedure adj call same soap	USPAT	OR	ON	2006/09/18 14:32
S25	93	remote adj procedure adj call and soap	USPAT	OR	ON	2006/09/18 14:37
S26	244	remote adj procedure adj call and xml	USPAT	OR	ON	2006/09/18 14:37

## EAST Search History

S28	112	schema same calendar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:36
S29	15	schema same calendar same notification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:38
S30	174	schema with notification	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:45
S31	0	("7017016").URPN.	USPAT	OR	ON	2006/09/20 11:47
S32	3	("5713013"   "5819047"   "6092163").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/20 11:47